

ABSTRACT OF THE DISCLOSURE

Device for the analysis of electromagnetic signals

5 The invention relates to a device for aiding the
analysis of signals by using symbols-based digital
modulation. The device comprises a signal memory for
storing a complex digital signal, representative in
amplitude and phase of a captured signal, over a chosen
10 duration, as well as processing means for searching for
the properties relating to the carrier frequency of the
complex signal and to its modulation. According to the
invention, the processing means comprise projection means
for calculating the components of the complex signal in a
15 function basis, parametrized according to an estimated
tempo of the modulation, as well as calculation means,
operating on these components so as to determine an
estimate relating to a property of the complex signal,
from among its elementary pulse shape, the string of
20 symbols of the complex signal and its carrier.